

OK TO ENTER: /CMW/ 11/9/2007

CLAIMS (CLEAN VERSION)

1. (Currently Amended) A peptide wherein the peptide is a purified peptide consisting of SEQ. ID NO.:1 derived from human transcription factor SIM2 beginning at the 558th marker of human transcription factor SIM2 and ending at the 566th marker of human transcription factor SIM2, wherein the peptide has the biological activity of transducing a biologically active, functional or regulatory molecule into prokaryotic cells or eukaryotic cells.
2. (Canceled)
3. (Currently Amended) The peptide of claim 1, wherein the biologically active, functional or regulatory molecule is any one of a protein, a DNA fragment, an RNA fragment, a carbohydrate, a lipid or a chemical compound.
4. (Currently Amended) The peptide of claim 1, wherein the peptide is fused to a biologically active, functional or regulatory molecule selected from the group consisting of a protein, a DNA fragment, an RNA fragment, a carbohydrate, a lipid and a chemical compound
5. (Currently Amended) A recombinant expression vector wherein the vector is a DNA sequence encoding the peptide consisting of SEQ. ID NO.:1 derived from human transcription factor SIM2 beginning at the 558th marker of human transcription factor SIM2 and ending at the 566th marker of human transcription factor SIM2.
- 6-29. (Canceled)
30. (Currently Amended) A method of transducing a biologically active, functional or regulatory molecule into a prokaryotic or eukaryotic cell comprising:
preparing a peptide construct wherein the peptide construct is a purified peptide consisting of SEQ. ID NO.:1 derived from human transcription factor SIM2 beginning at the 558th marker of human transcription factor SIM2 and ending at the 566th marker of human transcription factor SIM2 and a biologically active, functional or regulatory molecule; and

Nov-08-07 04:56pm From-BST&Z

310 820 5988

T-353 P.011/011 F-519

delivering the peptide construct *in vivo* to a subject through administration routes consisting of intramuscular, intraperitoneal, intravenous, oral, nasal, subcutaneous, intradermal, mucosal and inhalation routes.

31-37. (Canceled)

38. (New) A method of transducing a biologically active, functional or regulatory molecule into a prokaryotic or eukaryotic cell comprising:

preparing a peptide construct wherein the peptide construct is a purified peptide consisting of SEQ. ID NO.:1 derived from human transcription factor SIM2 beginning at the 558th marker of human transcription factor SIM2 and ending at the 566th marker of human transcription factor SIM2 and a biologically active, functional or regulatory molecule; and

delivering the peptide construct *in vitro* to a subject through administration routes consisting of intramuscular, intraperitoneal, intravenous, oral, nasal, subcutaneous, intradermal, mucosal and inhalation routes.

007157.P002

7

10/501.964